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Application No.

10/627,714

UNGER ET AL.

Applicant(s)

Examiner

Art Unit

Richard L. Leung

3744

Rejected Allowed

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|--|----------|-----|----------------|-------------------|-----------|-----------------|--------------|-----------------|------------|--------------|--------------|-----|----------|--------------|---------------|---|---|---------------|---------------|----------|------------|----------|--------------------|--------------|--------------|------------|-----------------|----------|----------|----------|
|  | Cla      | im  |                |                   |           | <u>Date</u>     | <del>-</del> | _               | 1          | 響            | Ula          |     | -т       | $\neg$       | Т,            | רוו   |   | Т             | Т             | 77       | Ĩ          |          | T                  | Т            | 1            | Ī          |                 | П        | T        |          |
|  | l _ l    | Tg. | त्र            | الم               | 1         |                 | 1            | - 1             |            | 1            | <del>-</del> | nai | -        | ١            | ŀ             | 1 1   |   |               | 1             |          | 펼          | <u>=</u> |                    | 1            | 1            |            |                 |          | - [      |          |
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| 1  | [        | Ö   | 2              | $\mathbb{R}^{-1}$ | 1         |                 |              | ı               | 1          | <b>E</b> .   | ш.           | ō   | - 1      |              | -             | 1   | ١   | - 1           |               | 57       |            | ١٩١      |                    | L            | L            | L          |                 | Ш        | _        | _        |
| 102  | _        |     | -              | <del>'</del>      | +         | ╂-              | ⊢⊦           | +               | +          | 36.54        |              | 51  | $\dashv$ | +            | ╅             | Н   | ┪   | $\neg$        | ╅             | Z-:      |            | 101      |                    |              | $\mathbb{L}$ |            | L               | Ш        | 니        | _        |
| S3   |          |     | _              | 4                 | +         | +-              | ₩            | +               | ╁          | -[編          |              |     | $\dashv$ |              | ╈             | Н   | _   | $\top$        | 1             |          |            | 102      | $\top$             | T            | T            |            |                 |          | Ц        | _        |
| S4   | <u></u>  |     |                | V 1.              |           | ╀               | ╀┤           | $\dashv$        | ╫          |              |              | 53  | -        | -            | +             | Н   | $\neg$  | $\neg \vdash$ | 1-            | 17.14    |            | 103      | $\Box$             |              | L            | 1_         | L               | Ш        | $\Box$   | _        |
| 105   105   106   107   109  |          |     | <b> </b>       | 4                 | +         | ╀               | ╀            | $\dashv$        | +-         | -154         | _            |     | -        | +            | +-            | П   |   |               | T             | #1       |            | 104      |                    |              | L            | L          | L               | Ц        | Ш        |          |
| S  |          |     |                |                   | +         | +-              | $\vdash$     |                 | +          | - <u>#</u> ? |              |     | $\dashv$ | -1-          | ╅╴            | $\vdash$  | П   |               | 1             | ÷        |            | 105      |                    |              | L            | $\perp$    | 1_              | Ц        | Ш        | _        |
| S  | <u> </u> |     |                |                   | -         | ╫               | ╀            |                 |            | 骨髓           | ├─           |     |          | -+           | +             | $\vdash$  | $\overline{}$                                     |               | 7             |          |            | 106      |                    | L            | ┸            | 1          | ┸               | Ш        | Ш        |          |
| S  | -        |     |                |                   | ┿         | ╁╴              | ╂╼┧          | -               | +          |              | ┢──          |     | H        | _            | $\top$        | Т   |   |               | $\top$        |          |            |          | $\perp$            |              | ┸            | ╄.         | ╀-              | ┺        | $\sqcup$ | _        |
| S  | <b> </b> |     |                | -~-               | -+-       | ╁               | ┦┤           |                 | +          | - 7          |              |     | H        | 7            | 十             | $\top$  |   |               |               |          |            |          |                    | $\perp$      | 1            | 1_         | ↓_              | $\perp$  | Ш        | 4        |
| 10   | <b> </b> |     |                |                   | +         | +-              | ╂╼┨          |                 | +          | -            | ├─           |     | Н        | Ť            | +             | Τ   |   |               | $\top$        |          |            |          |                    |              | ┸            | _          | ┸               | ┺        | Ш        | Ц        |
| 11   |          |     |                |                   | +         | ╁               | ┨            | $\dashv$        | - -        | -            | $\vdash$     |     | Н        | _            | T             | $\top$  | Γ   | $\Box$        |               | 獸        |            |          |                    | ᆚ            | 1_           | 1          | 1               | ┺        | Ш        | Н        |
| 11   |          |     | 17/1           | _~                | +         | +-              | +            | $\vdash$        | +          | -[2]         | -            |     | H        | 1            |               | 1   | Г   | П             |               |          |            |          |                    | 1            | ┸            | ┸          | 1               | ╄        | ┦        | $\vdash$ |
| 13   | <u> </u> |     | 火              |                   |           | ╫               | $\vdash$     | ++              | +          |              | $\vdash$     |     | $\Box$   | $\dashv$     | 十             | T   | Π   |               | I             |          |            |          |                    |              | 1            | ┸          | +-              | ↓_       | ┦        | $\vdash$ |
| 14   |          |     | K              | _                 | +         | +               | +            | $\vdash \vdash$ |            |              | 1            |     | $\vdash$ | 十            | _             | T   |   |               | I             |          |            |          | _                  | $\perp$      | 1            | 4          | _               | +        | ↩        | $\vdash$ |
| 15   | <u> </u> | _   | 쒸              | _                 | +         | +-              | +-           | ╁               | +          | ۱.,۱         |              |     | П        | 1            | $\top$        | T   | Π   |               | Ι             | ].;;     |            |          | _                  | $\perp$      | $\perp$      | 4          | +               | 4        |          | $\vdash$ |
| 16   |          |     | 14             |                   | +         | +               | +            | +               | +          |              |              |     | T        |              | 十             | Τ   | Г   |               | 1             | ];       |            |          | $\dashv$           | _            | 4            | 4          | +               | ╀        | $\vdash$ | $\vdash$ |
| 17   J   J   68   68   68   118   119   119   120   120   120   120   121   121   121   121   121   122   122   122   122   123   123   123   123   123   123   123   123   123   123   123   123   125   125   125   125   126    | <u> </u> |     | +*+            |                   | ┿         | ┽╌              | +            | ╌┼              | +          | <b>一</b> 證   | -            |     | Н        |              | $\neg \vdash$ | $\top$  | T   | П             |               | ];       |            |          | $\perp$            | $\perp$      | 4            | 4          | 4               | ╄        | ╄-       | H        |
| 18   J   J   | -        |     |                |                   | +         | +               | +-           | 1               | +          |              | -            |     | Н        |              | $\top$        | 1   | Τ   |               |               | ]        |            | 117      | $\perp$            | 4            | 4            | 4          | 4               | ╄        | ╄        | $\vdash$ |
| 19   |          |     |                |                   | +         | ╁               | +            | ╁╌╂             | +          | -1           | -            |     | Т        | $\Box$       | 一             | 1   | Т   | $\sqcap$      | Т             | ] -      |            | 118      | $\Box$             |              | ┵            | 4          | 4               | +        | ╄        | $\vdash$ |
| 13   10   12   12   12   12   12   12   12   | <b> </b> |     |                |                   | -+        | +               |              | ╀┤              | ┽          | 一課           |              |     | $\vdash$ | $\vdash$     | 1             | 1   | Τ   |               |               |          |            | 119      | $\perp$            | _            | 4            |            | 4-              | $\bot$   | ╄        | ⊣        |
| Till   | <u> </u> |     | 14             | М                 |           | +               |              | + +             | +          | -            | <b>!</b>     |     | +-       | $\vdash$     | +             | Τ   | T   | $\sqcap$      |               |          |            |          |                    | _            | 4            | 4          | 4               | ╨        | ┿        | $\vdash$ |
| 122  | <u> </u> |     | ╄              |                   | -+        | +               | ┥            | 1-1             | $\dashv$   | -13          | -            |     | ╁╌       | $\vdash$     | 1             | ╅   | 1   | $\sqcap$      |               |          | <u> </u>   |          | Ш                  |              | 4            | _          | _               | +        | ╄        | Н        |
| 23     73     123     124     125     125     125     126     125     126     126     126     127     127     127     127     127     127     128     128     129     129     129     129     130     130     130     130     130     130     130     130     130     130     130     133     134  | <u> </u> |     | ┼-             | Н                 | $\dashv$  |                 | ╌            | ╁               | -+         | - 1          | -            |     | †        | $\Box$       |               | _   | 1   |               | Т             |          |            |          | $\sqcup$           | _            | 4            | 4          | 4               | ┷        | ╁        | ↤        |
| 24     74     124     125     126     126     126     126     126     127     127     127     127     127     127     128     128     128     128     129     129     130     130     130     130     130     130     130     131     131     131     131     131     131     131     131     131     131     133     133     133     133     133     133     133     133     133     133     134     134     134     134     134     135  | <b>—</b> |     |                | Н                 | -+        | +               | ╫            | ╂═╂             | +          | -            |              |     | +-       | $\Box$       | $\neg \vdash$ | $\top$  | Τ   | 1 [           | Т             | ]:       | -          | 123      |                    | $\dashv$     | 4            | 4          | 4               | 4-       | ╄        | $\vdash$ |
| 25     75     125       26     77     127       27     78     128       29     129     129       30     80     130       31     81     131       32     83     132       33     83     133       34     84     134       35     85     135       36     86     136       37     87     137       38     88     138       39     89     139       40     90     140       41     91     141       42     92     142       43     93     143       44     94     144       45     96     146       46     96     146       47     97     147       48     98     149   | -        |     |                | $\vdash$          | $\dashv$  | +               | +            | +               | -          |              |              |     | T        | $\Box$       | $\top$        | $\top$  | T   | П             | $\perp$       | 1        |            | 124      | $\sqcup$           | $\dashv$     | 4            | -1-        | +               | +        | ╀        | ₩        |
| 26     77     127     128     128     128     129     128     129     129     130     130     130     130     130     131     131     131     131     131     132     132     132     132     132     133  | <u> </u> |     |                | -                 | -         | +               | ╁            | +1              | -+         |              |              |     | 1        | $\Box$       | 十             | $\top$  | Τ   | $\sqcap$      |               |          |            | 125      | L                  | _            | 4            | 4          | 4               | +        | ╀        | ₩        |
| 27     127       28     78       29     129       30     80       31     81       32     82       33     83       34     84       35     85       36     86       37     87       38     138       39     90       40     91       41     91       42     92       43     93       44     94       44     94       48     98       49  | <u> </u> |     |                | ⊢                 | $\dashv$  |                 | ╁            | +               | $\dashv$   | -16          | <b>-</b>     |     |          | $\Box$       | _             |   | Т   |               |               |          | 1          | 126      | $\sqcup$           | 4            | 4            | 4          | -               | +        | ┼-       | ╁╼┧      |
| 28   78   128     29   79   130     30   80   130     31   81   131     32   82   132     33   133   133     34   84   134     35   85   136     36   136   137     38   88   138     39   140   140     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   96   146     46   96   146     47   99   149   | <u> </u> |     |                | ├                 | $\dashv$  | ╌               |              | ╁┤              | $\dashv$   |              |              |     | +-       | 1 1          | $\neg$        | 7   | 1   | $\Box$        | $\neg \Gamma$ |          | Ī          |          | $\sqcup$           | _            | _            | 4          | 4               |          | +        | ↤        |
| 29     79     129       30     80     130       31     81     131       32     83     133       33     84     134       35     85     135       36     86     136       37     87     137       38     88     138       39     89     139       40     91     140       41     91     141       42     92     142       43     94     144       44     94     145       46     96     146       48     98     148       49     99     149  | -        |     |                | ┝                 | ⊢⊣        | +               | +            | +-1             | -+         | 1111         | 300          |     | $\top$   |              | $\neg$        | T   | Τ   | $\sqcap$      |               |          |            |          | $\sqcup$           | _            | 4            | 4          | +               | 4-       | 4-       | ↤        |
| 80   | -        |     |                | ├-                | ⊣         | +               | ╅            | +               | $\dashv$   | - 2          | <u> </u>     |     |          | $\Box$       |               | 1   | 1   | $\sqcap$      |               |          |            |          | 1_1                | _            | 4            | 4          | 4               | +        | +        | ╁┤       |
| 31   81   131     32   83   132     33   84   134     35   85   136     36   86   136     37   88   138     38   88   138     39   90   140     41   91   141     42   92   144     43   93   144     44   95   145     46   96   146     47   97   148     48   99   149  | -        |     |                | ⊢                 | ⊢┼        | -+              | +-           | +               | -          | -            |              |     |          | 1            | $\neg$        | $\top$  | Т   | П             |               |          |            |          | $\sqcup$           | $\dashv$     | _            | 4          | 4               | +        | +        | 4        |
| 32   83     33   84     34   84     35   86     36   86     37   88     38   136     39   139     40   90     41   91     42   92     43   93     44   94     45   95     46   96     47   98     48   99     49   149   | <u> </u> |     |                | -                 | $\vdash$  | ╁               | +-           | +               | $\vdash$   | -            | <u> </u>     |     |          | П            |               | 1   | Т   |               |               | u.       |            |          | $\bot$             | $\dashv$     | _            | 4          | _               | +        | +-       | ┦┦       |
| 33   34   133   134   134   135   135   135   135   136   136   137   137   137   137   138   138   139   139   139   139   139   139   139   139   139   139   140   141   141   141   141   141   142   142   142   143   143   143   144   144   144   144   144   145   145   146   146   147   147   148   149   149   149   149   149   149   149   149   149   149   149   149   140   140   140   140   141   141   141   142   142   143   143   144   144   144   144   144   144   144   144   145   146   146   147   147   148   148   149   149   149   149   149   149   149   149   140   140   140   140   141   141   144   144   144   144  |          |     |                | }−                | ┞╾╂       | ┽               | ╌            | +               | $\vdash$ † | -[]          |              |     |          |              | $\Box$        | $\neg$  |   | T             |               |          | Ί          | 132      | $ldsymbol{\sqcup}$ | $\sqcup$     | _            | -          | -               |          | +        | +-       |
| 34 84   35 85   36 86   37 88   38 88   39 138   40 91   41 91   42 92   43 93   44 94   45 96   46 96   47 98   48 99   49 149   49 149   |          |     |                | ╁                 | ⊢╁        | +               |              | +               | H          |              |              |     |          | П            |               | $\top$  | T   |               |               |          | :\         |          | 1                  | $\sqcup$     | 4            | 4          | 4               | +        | ┿        | ╁┤       |
| 35   85     36   86     37   137     38   138     39   139     40   90     41   91     42   92     93   142     43   94     44   94     45   96     46   96     47   97     48   98     49   149   | $\vdash$ |     |                | ╀                 | ╌┤        | +               |              | ╁               | H          |              | £;           |     |          | 1            |               | $\top$  |   |               |               | 19.5     | <b>{</b>   | 134      | ↓_                 | $\vdash$     | 4            |            | +               | +        | +        | +        |
| 36   | -        |     |                | ╁╌                | Н         | ┰               | ╅            | +               | Н          |              |              |     |          | $\sqcap$     |               |   |   |               |               | E.       |            |          |                    | $\sqcup$     | -            |            | $\dashv$        | +        | +        | +-       |
| 37   38   88   138     38   88   139     39   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   97   147     48   98   149   | -        |     |                | +                 | $\vdash$  | 十               | +            | +-              | Н          |              |              |     |          | 1            | П             | $\top$  |   |               |               |          | <u> </u>   | 136      | _                  | Ш            | 4            | -          | +               | +        | +        | +-       |
| 38 88   39 139   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   149   49  | -        |     |                | ╁╌                | Н         | -+              | +            | ╁╴              | Н          | 7            | 3            |     |          |              |               | T   |   |               |               |          | E .        |          | 4_                 | Н            |              |            | -+              | -        | +        | +-       |
| 39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   140   141   142   143   144   145   146   147   148   49   | -        |     |                | ╁                 | $\vdash$  | -               | +            | +               | Н          |              |              |     |          | Т            | П             |   | $\Box$  |               | Ш             |          |            |          |                    | Ш            |              | -          | -               | +        | +        | +-       |
| 40   41   42   43   44   45   46   47   48   49   99   141   142   143   144   143   144   145   146   147   148   149   149   150   | $\vdash$ |     |                | +                 | ╁┤        | $\dashv$        | +            | +               | $\vdash$   |              |              |     |          | I            |               | $\Box$  | $\perp$   |               | Ц             | - 2.     | ~          |          |                    | $\vdash$     |              |            | -+              | +        | +        | +-       |
| 42   43   44   45   46   47   48   49   92   93   143   144   145   146   147   148   149   149   150  | <u> </u> |     |                | ╁┈                | Н         | -               | +            | +               | $\vdash$   |              |              |     |          | L            | $\square$     | $\Box$  |   |               | $\sqcup$      | _Է՝      | 1—         |          |                    | $\vdash$     | _            |            | -               | +        | -        | +        |
| 42   43   44   45   46   47   48   49   92   93   143   144   145   146   147   148   149   149   150  | <u> </u> |     |                | ╁╴                | Н         | -+              | 十            | +               | Н          |              |              |     |          |              | $\Box$        |   | _[_   |               | Ш             | <u>_</u> | ्<br>देश   |          |                    | H            | $\dashv$     |            | -               | +        | +        |          |
| 43   44   45   46   47   48   49   99   143   144   145   146   147   148   149   149   150  | $\vdash$ | o   |                | +                 | $\dagger$ | $\vdash \vdash$ | +            | 1               | Н          |              |              | 92  | 2        | I            |               | $\cdot I$   | $oldsymbol{\mathbb{L}}$                           |               | $\sqcup$      |          |            | 142      | 4                  | $\vdash$     | $\dashv$     | $\vdash$   |                 | +        | +        | +-       |
| 44   45   46   47   48   49   99   144   145   146   147   148   149   150   | $\vdash$ |     |                | +                 | 1-        | H               | +            | $\top$          | П          |              | 1            |     |          | T            |               |   |   |               | Ш             |          | :          |          |                    | $\vdash$     |              | Н          | -               | +        | +        |          |
| 45   | <b>⊢</b> |     |                | ╁                 | +-        | $\vdash \vdash$ | +            | +-              | П          |              |              | 9   | <b>•</b> | $oxed{oxed}$ |               | $\Box$  |   |               | Ш             |          |            |          |                    | -            | $\sqcup$     | $\vdash$   | $\dashv$        | +        | 十        |          |
| 46 96 146 147 147 148 148 149 99 150 150 150 150 150 150 150 150 150 150   | -        |     |                | ╁                 | +         | $\vdash$        | 十            | $\top$          | T          |              | <u> </u>     |     |          |              |               | $oldsymbol{ol}}}}}}}}}}}}}}}$ | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |               | Ш             | #        | <b>%</b>   |          |                    | ├-           |              | Н          | $\dashv$        | +        | +        | +        |
| 47<br>48<br>48<br>49<br>99<br>99<br>148  | $\vdash$ |     |                | +                 | +-        | $\vdash$        | +            | +               | T          |              |              |     |          | $\prod$      | $\prod$       | $oxed{oxed}$  | $oxed{\Box}$                                      |               | Ш             | _        | ii         | 146      | 1                  |              | <u> </u>     | <b> </b>   | $\vdash$        | +        | +        | +-       |
| 98 148 149 150 150 150 150 150 150 150 150 150 150   | ├-       |     |                | +                 | +-        | Н               | +            | $\dashv$        | ✝          | П            |              |     |          | Τ            | $\Box$        | $\Box$  | $\perp$   |               | Ш             | _        | 141<br>123 |          |                    | ╄            | <u> </u>     | <b>-</b> - | $\vdash \vdash$ | -+       | +        | +        |
| 99 149 150   | ·  -     |     |                | +-                | +         | H               | _            | $\top$          | T          | П            | 劃一           | 9   | В        | $\mathbf{I}$ |               |   | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |               | Ш             |          |            | 148      | ! -                | <del> </del> | ├-           | H          | ┝┤              | $\dashv$ | +        | +-       |
|  | -        |     |                | +                 | +         | Н               | $\dashv$     | $\top$          | †-         | П            |              | 9   | 9        |              |               |   | $\perp$   |               | Ľ             | _        | 到          |          |                    | +            | <b>!</b>     | $\vdash$   | ┝┤              | -+       | +        |          |
| 50 100 100   | -        | 1=  | <del>ĭ</del> l | +                 | T         | $\vdash$        | 十            | $\neg \vdash$   | $\top$     | П            |              | 10  | 00       | $\prod$      |               |   |   |               | Ш             |          | <b>ZL</b>  | 150      | <u> </u>           | 上            | <u> </u>     | L          |                 |          |          |          |